

ASBESTOS SURVEY
MFR ASR - Medford, Oregon

PERFORMED FOR:
Federal Aviation Administration
Mr. Steve Mares
1601 Lind Avenue Southwest
Renton, WA 98057

PERFORMED BY:
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AHERA Building Certification #104406
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Federal Aviation Administration
Seattle Infrastructure Engineering
1601 Lind Avenue Southwest
Renton, WA 98057

DATE PREPARED: 6 Nov 2009

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1.0 INTRODUCTION

This report presents the results of the asbestos survey performed by Janelle Cass and Ian Quiñones, Environmental Safety & Occupational Health (EOSH), on the Federal Aviation Administration building known as the *MFR ASR* located at Medford Oregon.

This report was prepared based on information obtained during our site visit conducted on 28 Oct 09 and the laboratory results of bulk samples of suspected building materials collected during the site visit. This survey report is not intended for, nor should be used as a design specification.

2.0 SCOPE OF WORK

The scope of services proposed and performed included the following:

- Perform a field survey to evaluate suspected building materials in the interior and exterior of the structures on the property and document the existing site conditions in those areas. Sampling was done with limited destructive methods.
- Collect bulk samples of friable and non-friable suspected asbestos-containing materials for laboratory testing.
- Prepare this survey report including sample location sketches and recommendations for asbestos abatement actions (if require).

Asbestos-Containing Materials (ACM's)

- Bulk sampling and analysis of ACM's.
- Quantity estimates of ACM's
- Written descriptions of bulk samples including sketch with sample locations.
- Written report including sample logs, descriptions, sketches and recommendations.

3.0 PROCEDURES

All personnel participating in asbestos inspections have received training as detailed in the Asbestos Hazard Emergency Response Act (AHERA), 29 CFR Part 763 and are accredited asbestos building inspectors.

Samples locations for this survey were chosen in a random fashion, with emphasis being placed on obtaining samples of each type of accessible suspected material, while minimizing damage to the material being sampled. Samples were collected by carefully removing small portions of the suspected material in a non-abrasive manner. If possible, samples were collected from existing damage areas. Immediately after collection, samples were placed in plastic containers. Samples containers were then placed in a large re-sealable plastic bag for transportation to the laboratory. Data pertinent to each sample such as date, sample number, material description and material condition were recorded on a field data sheet.

Asbestos bulk samples were sent under appropriate chain-of-custody procedures to Pacific Rim Environmental (PRE), Inc. in Seattle, Washington for analysis. The samples were analyzed in accordance with method EPA-600/R-93/116, "*Method for Determinations of Asbestos in Bulk Building Materials (polarized light microscopy/dispersion staining techniques)*". Detection limits for this type of analysis are approximately one percent by volume. Materials containing one percent asbestos or more are considered to be asbestos-containing materials.

Laboratory analysis report is attached.

4.0 FIELD OBSERVATIONS

The building MFR ASR was inspected for suspected material near the Medford Airport located in Medford, Oregon. The structure was built in 1990's. The building consists of reinforced CMU material on a concrete slab foundation. The structure was considered to be in "good" conditions.

Suspected building materials that will be impacted by any future renovation and/or demolition consist of EG exhaust insulation wrap (white woven & light blue wrap, chalky, fibrous insulation) and EG exhaust exit caulking (white to light gray, fibrous insulation material with white paint fragments).

Note: This inspection report is meant only to inventory ACM at the site. Some suspected materials may have not been sampled due to the severe destructive methods needed to sample or were found to be inaccessible at the time of the inspection.

Suspected ACM within the structure were identified and classified as either a surfacing material, thermal system insulation or miscellaneous material. Surfacing materials are those which are either spray applied or troweled-on for acoustical, decorative or fireproofing purposes. Thermal system insulation is insulation used to inhibit heat transfer or to prevent condensation on pipes, boilers, tanks, ducts and various other components. Miscellaneous materials included all other materials not included in the above categories such as floor tiles, ceiling tiles, roofing felt, cementitious material, wallboard systems and products such as caulking, mastics and putties.

A total of two samples were collected and submitted to PRE laboratories. Asbestos material was not detected on either of the two suspected ACM's.

5.0 ASBESTOS-CONTAINING MATERIAL (ACM) SURVEY NARRATIVE

Bulk samples collected were submitted for sample analysis in accordance with method EPA-600/R-93/116: "Method for Determination of Asbestos in Bulk Building Materials". Analyses were performed in Pacific Rim Environmental, Inc. Materials are positive for asbestos if they are found to contain 1% or greater with asbestos.

Thermal Systems Insulation (TSI)

Suspected ***white woven (layer 1) and light blue chalky-fibrous insulation wrap*** around the EG exhaust was identified. The material was sampled and was not found to contain ACM.

No other suspected TSI was found and sampled during the inspection. If during the course of renovation or demolition of walls, ceiling tiles or other areas additional TSI materials that are not listed in this report are uncovered, sampling **must** be performed prior to their disturbance.

Surfacing Materials

No suspected surfacing material was found and sampled during the inspection. If during the course of wall, ceiling tiles or other renovations or demolition, any additional surfacing materials that are not listed in this report are uncovered, sampling **must** be performed prior to their disturbance.

Miscellaneous Materials

Suspected ***white to light gray caulking, fibrous insulation material with white paint fragments*** around the EG exhaust exit was identified. The material was sampled and was not found to contain ACM.

6.0 STATEMENT OF COMPLIANCE

In accordance with local, state and federal regulations, Federal Aviation Administration performed an asbestos survey of the structure (MFR ASR) located in Medford, Oregon. Should employees or contract personnel encounter any suspected ACM's they should:

1. Contact a representative of the owner
2. Consult the inspection report to determine whether or not the suspected material contains asbestos
3. If the suspected material does not appear in the inspection report, then that material was not sampled and must be presumed to contain asbestos until proven otherwise by sampling analysis.

None of the bulk samples taken came out positive for asbestos.

I Hereby Attest:

The inspection report has been made available to me. I will inform subcontractors of the location and types of materials collected. I am authorized to sign on behalf of my company.

Contractor: _____ Owner's Rep: _____

Signature: _____ Signature: _____

Print Name: _____ Print Name: _____

Title: _____ Title: _____

Date: _____ Date: _____

APPENDIX A
ASBESTOS SAMPLE SUMMARY

TABLE 1

**SUMMARY OF MATERIALS SUSPECTED TO CONTAIN ASBESTOS AND
LABORATORY RESULTS FOR THE *MFR AS IN MEDFORD, OR***

Material Number	Material Description	Laboratory Results
MFR ASR EG #1	EG Exhaust Insulation, white woven (layer 1) and light blue chalky-fibrous insulation wrap	ND
MFR ASR EG #2	EG Exhaust Exit Caulking, white to light gray caulking, fibrous insulation material with white paint fragments	ND

NS = Material Not Sample

ND = No Asbestos Detected

PACM = Presumed Asbestos Containing Material

APPENDIX B
LABORATORY ANALYSIS DATE SHEET



PACIFIC RIM ENVIRONMENTAL, INC.
SEATTLE www.pacrimenv.com ANCHORAGE

BULK SAMPLE ANALYSIS REPORT

CLIENT:	Federal Aviation Administration 1601 Lind Avenue S.W. Renton, WA 98055	PRE #:	2009.1339
PROJECT:	MFR ASR/LMT FMP Medford & Keno, OR	REPORT #:	2009-10-419
SAMPLE DATE:	10/28/2009	DATE RECEIVED:	10/30/2009
CONTACT:	Ian Quinones	ANALYST:	William F. Golloway
TURNAROUND:	3-5 Days	DATE ANALYZED:	11/03/2009
		REPORT BY:	Dai Le
		REPORT DATE:	11/04/2009
		PAGE:	1 of 2

Attached are the results of analysis of 5 bulk samples submitted for asbestos identification: lab ID #2009-10-419 through 2009-10-423.

The samples were analyzed in accordance with method EPA-600/R-93/116: "Method for the Determination of Asbestos in Bulk Building Materials".

Unless otherwise noted, the samples were inhomogeneous; subsamples of components were analyzed to achieve representative analysis. Separate layers of layered samples are analyzed and reported separately. Unless otherwise stated, asbestos content was quantified by calibrated visual estimation (CVES). CVES concentrations are reported in 2 to 3 percent ranges for fiber concentrations ranging from 1-10%, and 5 percent ranges for concentrations greater than 10%. Samples in which asbestos was not observed are reported as "none detected".

Limitations and Uncertainty:

Factors such as sample quality, sample size, interfering matrix material, fiber size, and fiber concentration contribute to the uncertainty of asbestos concentration measurements in bulk materials. Relative errors exceeding 100% may occur in samples containing <1-10% asbestos. Relative errors are typically below 30% in samples with greater than 10% asbestos, and approach zero as the asbestos concentration approaches 100%.

Asbestos fibers with diameters below approximately 0.25 micrometers are not detectable by PLM. These extremely fine fibers may occur in such products as floor tile, adhesives, and cement products. This limitation can be overcome, however, by the use of alternate analytical methods, such as Transmission Electron Microscopy (TEM).

The samples analyzed in this report were provided by third parties not subject to control by Pacific Rim Environmental, Inc. (PRE). Consequently, the results presented represent microscopic examinations in PRE laboratory facilities and PRE makes no representation as to sample collection techniques or procedures. Test results pertain only to the samples submitted for analysis.

This report cannot be represented by the client to claim product endorsement by NVLAP or any agency of the U.S. Government. This report shall not be reproduced except in full without written permission of the laboratory.

NVLAP Accredited LAB #: 101631-0
Samples submitted by: Third Party

Reports

Reviewed By:

Approved Signatory

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Phone (907) 569-8081
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Pacific Rim Environmental, Inc.
BULK SAMPLE ANALYSIS REPORT

CLIENT: Federal Aviation Administration	PRE #: 2009.1339
1601 Lind Avenue S.W.	REPORT #: 2009-10-419
Renton, WA 98055	DATE RECEIVED: 10/30/2009
PROJECT: MFR ASR/LMT FMP	ANALYST: William F. Golloway
Medford & Keno, OR	DATE ANALYZED: 11/03/2009
SAMPLE DATE: 10/28/2009	REPORT BY: Dai Le
CONTACT: Ian Quinones	REPORT DATE: 11/04/2009
TURNAROUND: 3-5 Days	PAGE: 2 of 2

Client/Lab ID Number	Sample Location and Description	Asbestos Type(s) / %	Other Material(s)	Date Analyzed
MFR ASR EG #1 2009-10-419	EG Exhaust Insulation Wrap. White woven wrap (layer 1) and light blue, chalky, fibrous insulation (layer 2).	Layer 1 (Wrap): None Detected Layer 2 (Insulation): None Detected	Layer 1: Cellulose (80-85%), Fiberglass (<1%), Binder. Layer 2: Fiberglass (<1%), Synthetics (3-5%), Binder, Mica, Mineral Aggregate.	11/03/09
MFR ASR EG #2 2009-10-420	EG Exhaust Exit Caulking. White to light gray, fibrous insulation material with white paint fragments.	None Detected	Cellulose (<1%), Fibrous Glass (80-85%), Binder, Paint, Mineral Aggregate, Metal.	11/03/09

PACIFIC RIM ENVIRONMENTAL, INC.

Chain of Custody

PRE#: 269.1339

CLIENT: <u>Federal Aviation Administration</u>	PO#: _____	SAMPLE TYPE:	TURNAROUND:
ADDRESS: <u>1601 Lind Ave SW</u>	PROJECT #: _____	<input checked="" type="checkbox"/> ASBESTOS SAMPLE	SAME DAY
<u>Renton, WA 98057</u>	CONTACT: <u>Jan Guimaraes</u>	<input type="checkbox"/> LEAD SAMPLE	24 HOUR
CONTACT: <u>jan.guimaraes@faa.gov</u>	PROJECT NAME: <u>MFR ASR/LMT FMP</u>		<input checked="" type="checkbox"/> 3-5 WORKING DAYS
PHONE: <u>(425) 227-2408</u>	ADDRESS: <u>Medford & Keno, OR</u>	<input type="checkbox"/> OTHER	OTHER
FAX: <u>(425) 227-2984</u>			

SAMPLE DATE	SAMPLE NUMBER	ANALYSIS TYPE	SAMPLE DESCRIPTION / COMMENTS
28 Oct 09	MFR ASR EG #1	Asbestos	EG Exhaust Insulation Wrap
28 Oct 09	MFR ASR EG #2	Asbestos	EG Exhaust Exit Caulking

RELEASED BY: SIGNATURE <u>[Signature]</u>	DATE: <u>10/28/09</u>	TIME: <u>10:55</u>	ACCEPTED BY: SIGNATURE <u>[Signature]</u>	DATE: <u>10/28/09</u>	TIME: <u>10:55 AM</u>
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AUTHORIZATION TO RELEASE RESULTS TO THE FOLLOWING:			
CONTACT: _____			FAX#: _____
CLIENT CONTACTED: _____	DATE: _____	TIME: _____	COMMENT: _____

CORPORATE OFFICE: 6510 Southcenter Blvd., Suite 4, Tukwila, WA 98188 Phone (206) 244-8965, Fax (206) 244-9096, Email: pre@pacrimenv.com

INSPECTORS CERTIFICATIONS

Certificate of Completion

This is to certify that
Ian Quinones
has satisfactorily completed
24 hours of training as an
Asbestos Building Inspector
to comply with the training requirements of
TSCA Title II / 40 CFR 763 (AHERA)

Certificate Number: 1030503


Instructor

EPA Provider Cert. Number: 1085



Apr 22 - 24, 2009

Date(s) of Training

Exam Score: 94%

Expiration Date: Apr 24, 2010

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This certifies that
Janelle M. Cass
has satisfactorily completed
4 hours of refresher training as an
Asbestos Building Inspector

complies with TSCA Title II / 40 CFR 763 (AHERA)


Instructor

EPA Provider Cert. Number: 1085

Cert. Num: 104406
Class Date: Sep 23, 2009
Expires: Sep 23, 2010